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Impact and Impact Z Weed Control Programs in Field Corn

Trial ID: CN-11-18 Trial Year: 2018
 Protocol ID: 18C04H096 Investigator: Eric P. Prostko
 Project ID: IMPACTZ Study Director: Richard Porter

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check										101	203	307	409
2	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	3.6	pt/a	PRE	A	PRE	45.0 mL/mx	102	205	303	410
3	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	3.6	pt/a	PRE	A	PRE	45.0 mL/mx	103	202	309	401
	ImpactZ	4.26	SC	0.356 lb ai/a	10.7	fl oz/a	POST	C	2-4" Weeds	8.356 mL/mx				
	MSO	100	SL	1.0 % v/v			POST	C	2-4" Weeds	15.0 mL/mx				
	N-Pak AMS Liquid	100	L	2.5 % v/v			POST	C	2-4" Weeds	37.5 mL/mx				
4	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	3.6	pt/a	PRE	A	PRE	45.0 mL/mx	104	206	301	408
	ImpactZ	4.26	SC	0.266 lb ai/a	8.0	fl oz/a	POST	C	2-4" Weeds	6.243 mL/mx				
	Roundup PowerMax	4.5	SL	1.13 lb ae/a	32.0	fl oz/a	POST	C	2-4" Weeds	25.11 mL/mx				
	MSO	100	SL	0.5 % v/v			POST	C	2-4" Weeds	7.499 mL/mx				
	N-Pak AMS Liquid	100	L	2.5 % v/v			POST	C	2-4" Weeds	37.5 mL/mx				
5	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	3.6	pt/a	PRE	A	PRE	45.0 mL/mx	105	204	306	405
	ImpactZ	4.26	SC	0.266 lb ai/a	8.0	fl oz/a	POST	C	2-4" Weeds	6.243 mL/mx				
	Liberty 280 SL	2.34	SL	0.53 lb ai/a	29.0	fl oz/a	POST	C	2-4" Weeds	22.65 mL/mx				
	N-Pak AMS Liquid	100	L	2.5 % v/v			POST	C	2-4" Weeds	37.5 mL/mx				
6	Harness	7	EC	1.60 lb ai/a	1.83	pt/a	EPOST	B	E. POST	22.85 mL/mx	106	201	310	402
	IMPACT	2.8	SC	0.0219 lb ai/a	1.0	fl oz/a	EPOST	B	E. POST	0.7821 mL/mx				
	Atrazine	4	F	0.5 lb ai/a	1	pt/a	EPOST	B	E. POST	12.5 mL/mx				
	MSO	100	SL	0.25 % v/v			EPOST	B	E. POST	3.75 mL/mx				
	N-Pak AMS Liquid	100	L	2.5 % v/v			EPOST	B	E. POST	37.5 mL/mx				
7	Harness	7	EC	1.60 lb ai/a	1.83	pt/a	EPOST	B	E. POST	22.85 mL/mx	107	208	305	403
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75	fl oz/a	EPOST	B	E. POST	0.5857 mL/mx				
	Atrazine	4	F	0.5 lb ai/a	1	pt/a	EPOST	B	E. POST	12.5 mL/mx				
	Roundup PowerMax	4.5	SL	1.13 lb ae/a	32.0	fl oz/a	EPOST	B	E. POST	25.11 mL/mx				
	MSO	100	SL	0.25 % v/v			EPOST	B	E. POST	3.75 mL/mx				
	N-Pak AMS Liquid	100	L	2.5 % v/v			EPOST	B	E. POST	37.5 mL/mx				
8	Halex GT	4.39	CS	1.98 lb ai/a	3.6	pt/a	EPOST	B	E. POST	45.1 mL/mx	108	210	304	407
	Atrazine	4	F	0.5 lb ai/a	1	pt/a	EPOST	B	E. POST	12.5 mL/mx				
	NIS	100	SL	0.25 % v/v			EPOST	B	E. POST	3.75 mL/mx				
	N-Pak AMS Liquid	100	L	2.5 % v/v			EPOST	B	E. POST	37.5 mL/mx				
9	ROUNDUP POWERMAX	5.5	SL	1.375 lb ai/a	32.0	oz/a	EPOST	B	EPOST	25.0 mL/mx	109	207	302	404
	Atrazine	4	F	2.0 lb ai/a	64.0	oz/a	EPOST	B	EPOST	49.99 mL/mx				
	PROWL H20	3.8	SC	0.95 lb ai/a	32.0	oz/a	EPOST	B	EPOST	25.0 mL/mx				
	NIS			0.25 % v/v			EPOST	B	EPOST	3.75 mL/mx				
10	REVULIN Q	51.2	DG	0.109 lb ai/a	3.4	oz/a	EPOST	B	EPOST	2.551 g/mx	110	209	308	406
	Atrazine	4	F	2.0 lb ai/a	64.0	oz/a	EPOST	B	EPOST	49.99 mL/mx				
	COC			1.0 % v/v			EPOST	B	EPOST	15.0 mL/mx				

Sort Order: Treatment

Trial Comments

HARNES XTRA 5.6L = ACETOCHLOR (3.1 LBS) + ATRAZINE (2.5 LBS)
 IMPACTZ = TOPRAMEZONE (0.26 LBS) + ATRAZINE (4 LBS)
 ARMEZON PRO = TOPRAMEZONE (0.1 LBS) + DIMETHENAMID (5.25 LBS)
 HALEX GT = S-METOLACHLOR (2.09 LBS) + GLYPHOSATE (2.09 LBS) + MESOTRIONE (0.209 LBS)

NIS = INDUCE (HELENA)
 COC = AGRIDEX (HELENA)
 MSO = MES 100 (DREXEL)

HARVEST MOISTURE: 17%
 YIELDS ADJUSTED TO 15.5%

SUMMARY:

1) PRE APPLICATIONS OF HARNES XTRA CAUSED SLIGHT CORN STUNTING (10%).

2) EPOST APPLICATIONS OF HARNES + IMPACT + ATRAZINE CAUSED SLIGHT CORN STUNTING (9-13%).

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3) WEED CONTROL RATINGS OBTAINED ON JUNE 12 (77 DAP) INDICATED THE FOLLOWING:

A) PALMER AMARANTH CONTROL EXCEEDED 94% WITH AL TREATMENTS.

B) HIGHEST LEVEL OF ANNUAL GRASS CONTROL (93%) WAS OBSERVED WITH STANDARD EPOST ROUNDUP + ATRAZINE + PROWL TREATMENT.

C) 2 LOWEST LEVELS OF ANNUAL GRASS CONTROL WERE OBSERVED WITH PRE HARNESS XTRA (54% CONTROL) AND EPOST HARNESS + IMPACT + ATRAZINE (74% CONTROL) TREATMENTS.

4) CORN YIELDS WERE NOT INFLUENCED BY ANY HERBICIDE TREATMENT (P=0.2836)

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Impact and Impact Z Weed Control Programs in Field Corn

Trial ID: CN-11-18 Trial Year: 2018
 Protocol ID: 18C04H096 Investigator: Eric P. Prostko
 Project ID: IMPACTZ Study Director: Richard Porter

General Trial Information

Study Director: Richard Porter **Title:** _____
Investigator: Eric P. Prostko **Title:** _____

Discipline: H herbicide
Trial Status: _____ **Trial Reliability:** _____

Trial Usage/Type: DEV Development/Registration
Initiation Date: _____ **Planned Completion Date:** Oct-30-18
Completion Date: _____

Trial Location

City: _____ **Country:** USA United States
State/Prov.: _____
Postal Code: _____ **Climate Zone:** _____

Latitude of LL Corner °: _____ -
Longitude of LL Corner °: _____ -
Altitude of LL Corner, Unit: _____
Angle y-axis to North °: _____
Directions: _____

Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Other Trial ID:** _____
Study Rules: _____

No.	Guideline	Description
1.		

Keywords: _____

Objectives:

Evaluate commercial ImpactZ treatments in 1-pass and sequential programs compared to standards.

Conclusions:

Contacts

Study Director: Richard Porter **Title:** _____
Organization: _____
Address: _____ **Phone No.:** _____
City+State/Prov: _____ **Mobile No.:** _____
Postal Code: _____ **E-mail:** _____
Country: _____

Investigator: Eric P. Prostko **Title:** _____
Organization: _____
Address: _____ **Phone No.:** _____
City+State/Prov: _____ **Mobile No.:** _____
Postal Code: _____ **E-mail:** _____
Country: _____

Cooperator/Landowner

Cooperator: _____ **Role:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Address 2:** _____
City: _____ **Phone No.:** _____
State/Prov: _____ **Fax No.:** _____
Postal Code: _____ **Mobile No.:** _____
Country: _____ **E-mail:** _____

Other Contacts

Name	Role	Other

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Crop Description	
<p>Crop 1: ZEAMX Zea mays Variety: PIONEER 1870YHR Description: Glyphosate & Glufosinate Toler Seed Size, Unit: _____ Seed Shape: _____ Planting Rate, Unit: 36300 S/A Depth, Unit: 1.75 IN Row Spacing, Unit: 36 IN Spacing within Row, Unit: _____ Rows per Plot: 2 Planting Density, Unit: _____ Soil Temperature, Unit: _____ Soil Moisture: EXCELL excellent Seed Bed: _____ Perennial Age, Unit: _____</p>	<p>Corn Nursery Date: _____ Planting Date: Mar-27-18 Planting Method: _____ Planting Equipment: _____ Emergence Date: _____ Harvest Date: _____ Harvested Width, Unit: 6 FT Harvested Length, Unit: 25 FT Harvest Equipment: _____ % Standard Moisture: 15.5 Moisture Meter: _____ Weighing Equipment: _____</p>

Pest Description	
<p>Pest 1 Type: W Code: AMAPA Amaranthus palmeri Common Name: Palmer amaranth Description: _____ Artificial Population: _____ Establishment Date: _____ Establishment Rate, Unit: _____ Concentration, Unit: _____ Establishment Method/Description: _____</p>	
<p>Pest 2 Type: W Code: AGRASS TEXAS PANICUM/CROW/CRAB/GOOSE Common Name: ANNUAL GRASSES Description: NON-UNIFORM MIXTURE OF ANNUAL GRASSES Artificial Population: _____ Establishment Date: _____ Establishment Rate, Unit: _____ Concentration, Unit: _____ Establishment Method/Description: _____</p>	

Site and Design									
<p>Treated Plot Width: 6 FT Treated Plot Length: 25 FT Treated Plot Area: 150 FT2 Treatments: 10 Replications: 4 % Slope: _____</p>	<p>Site Type: FIELD field Experimental Unit: 4 ROW row Tillage Type: CONTIL conventional-till Study Design: RACOBL Randomized Complete Block (RCB)</p>								
<p>Trial Initiation Comments:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Previous Pesticides</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>COTTON</td> <td>2017</td> <td></td> </tr> </tbody> </table>		No.	Previous Crop	Previous Pesticides	Year	1.	COTTON	2017	
No.	Previous Crop	Previous Pesticides	Year						
1.	COTTON	2017							

Maintenance										
No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix
1.										

Comment:

Field Prep./Maintenance:
 Maintain fertility program for optimum corn growth. Target plant population which simulates commercial corn production in the area.

Soil Description									
<p>Description Name: SAND % Sand: 94 % OM: 0.58 % Silt: 2 pH: 6.2 % Clay: 4 CEC: 2.4</p>	<p>Texture: _____ Soil Name: FUQUAY Fert. Level: _____ Soil Drainage: _____</p>								
<p>Analyzed By: _____</p>									
<p>Additional Measured Elements</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Date	Element	Quantity	Unit				
Date	Element	Quantity	Unit						

Moisture and Weather Conditions	
<p>Overall Moisture Conditions: ABONOR above normal</p>	<p>Closest Weather Station: UGA PONDER FARM Distance, Unit: 0.5 MI</p>

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No.	Date	Time	Moisture Total	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	% Relative Humidity	Min Wind	Max Winc
1.	Mar-29-18		0.4	IN	SPLAMO	sprinkler - lateral move									
2.	Mar-30-18		1.03	IN	RAIN	rain									
3.	Apr-4-18		0.03	IN	RAIN	rain									
4.	Apr-5-18		0.5	IN	SPLAMO	sprinkler - lateral move									
5.	Apr-7-18		0.36	IN	RAIN	rain									
6.	Apr-12-18		0.5	IN	SPLAMO	sprinkler - lateral move									
7.	Apr-15-18		1	IN	RAIN	rain									
8.	Apr-22-18		0.33	IN	RAIN	rain									
9.	Apr-23-18		1.18	IN	RAIN	rain									
10.	May-5-18		0.5	IN	SPLAMO	sprinkler - lateral move									
11.	May-9-18		0.5	IN	SPLAMO	sprinkler - lateral move									

Comment:

Application Description

	A	B	C
Application Date:	Mar-28-18	Apr-17-18	Apr-27-18
Appl. Start Time:	7:30 AM		
Appl. Stop Time:	7:45 AM	8:00 AM	7:34 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPOST	POST
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	EPP	EPP	EPP
Air Temperature, Unit:	56 F	44 F	56 F
% Relative Humidity:	84	91	100
Wind Velocity, Unit:	0 MPH	1 MPH	1 MPH
Wind Direction:	--		
Dew Presence (Y/N):	Y yes	Y yes	Y yes
Soil Temperature, Unit:	59 F	52 F	63 F
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM
% Cloud Cover:	0	0	5
Next Moisture Occurred On:			
Time to Next Moisture, Unit:			
Moisture 1 Week after Appl.:			

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		DESC	BBCH
Stage Majority, Percent:		V3 4 LF 100	V5 6 LF 100
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Average Diameter, Unit:			
Height, Unit:		4 IN	7 IN
Height Minimum, Maximum:			
Crop coverage (%):			

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Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	AMAPA W	AMAPA W	AMAPA W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		0.5 IN	
Height Minimum, Maximum:		0.5 1.0	
Density, Unit:			
Coverage, Unit:			
Pest 2 Code, Type, Scale:	AGRASS W	AGRASS W	AGRASS W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		0.75 IN	1.5 IN
Height Minimum, Maximum:		0.5 1.0	1 2
Density, Unit:			
Coverage, Unit:			

Application Equipment				
	A	B	C	D
Appl. Equipment:	BOOM	BOOM	BOOM	
Equipment Type:	BACSPR	BACSPR	BACSPR	
Operation Pressure, Unit:	27 PSI	43 PSI	41 PSI	
Nozzle Type:	AIXR	AIXR	AIXR	
Nozzle Size:	11002	11002	11002	
Nozzle Spacing, Unit:	15 IN	20 IN	20 IN	
Nozzles/Row:	2			
Band Width, Unit:				
% Coverage:				
Boom ID:				
Boom Length, Unit:	60 IN	60 IN	60 IN	
Boom Height, Unit:	20 IN	20 IN	20 IN	
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH	
Carrier:	WATER	WATER	WATER	
Water Hardness (ppm CaCO3):				
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC	
Mix Overage, Unit:				
Mix Size, Unit:	1.5 L	1.5 L	1.5 L	
Spray pH:				
Propellant:	COMCO2	COMCO2	COMCO2	
Tank Mix (Y/N):	Y yes	Y yes	Y yes	
Equipment Comment:				

Trt No Treatment Application Comment

Date	By	Notes
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No. Date	By	Deviations
1.		

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Reasons:

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Impact and Impact Z Weed Control Programs in Field Corn

Trial ID: CN-11-18 Trial Year: 2018
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						W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed AGRASS		W Weed AMAPA Amaranthus pal> Palmer amaranth		
						ZEAMX BCOR Zea mays Corn STUNTING PLANT C Apr-11-18	CONTROL PLANT C Apr-11-18	CONTROL PLANT P Apr-11-18	ZEAMX BCOR Zea mays Corn STUNTING PLANT C Apr-26-18	CONTROL PLANT C Apr-26-18	
						%	%	%	%	%	
						2 ROW 1 PLOT	2 ROW 1 PLOT	2 ROW 1 PLOT	2 ROW 1 PLOT	2 ROW 1 PLOT	
						1	1	1	1	1	
						7	7	9	9	9	
						14 14	14 14	14 14	29 9	29 9	
						7 DA-C	14 DA-C	0 DA-B	14 DA-B	28 DA-B	
						15 DP-1 s10	15 DP-1 s10	15 DP-1 S05	30 DP-1 S05	30 DP-1 S05	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	1	2	3	4	5
1	Untreated Check						0.0 b	0.0 b	0.0 b	0.0 a	0.0 b
2	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	PRE	A	10.0 a	99.0 a	99.0 a	10.0 a	99.0 a
3	Harness Xtra 5.6 ImpactZ MSO N-Pak AMS Liquid	5.6 4.26 100 100	SC SC SL L	2.52 lb ai/a 0.356 lb ai/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A C C C	10.0 a	99.0 a	99.0 a	10.0 a	99.0 a
4	Harness Xtra 5.6 ImpactZ Roundup PowerMax MSO N-Pak AMS Liquid	5.6 4.26 4.5 100 100	SC SC SL SL L	2.52 lb ai/a 0.266 lb ai/a 1.13 lb ae/a 0.5 % v/v 2.5 % v/v	PRE POST POST POST POST	A C C C C	10.0 a	99.0 a	98.0 a	6.3 a	99.0 a
5	Harness Xtra 5.6 ImpactZ Liberty 280 SL N-Pak AMS Liquid	5.6 4.26 2.34 100	SC SC SL L	2.52 lb ai/a 0.266 lb ai/a 0.53 lb ai/a 2.5 % v/v	PRE POST POST POST	A C C C	10.0 a	99.0 a	98.0 a	10.0 a	99.0 a
6	Harness IMPACT Atrazine MSO N-Pak AMS Liquid	7 2.8 4 100 100	EC SC F SL L	1.60 lb ai/a 0.0219 lb ai/a 0.5 lb ai/a 0.25 % v/v 2.5 % v/v	EPOST EPOST EPOST EPOST EPOST	B B B B B	0.0 b	0.0 b	0.0 b	8.8 a	99.0 a
7	Harness IMPACT Atrazine Roundup PowerMax MSO N-Pak AMS Liquid	7 2.8 4 4.5 100 100	EC SC F SL SL L	1.60 lb ai/a 0.0164 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 0.25 % v/v 2.5 % v/v	EPOST EPOST EPOST EPOST EPOST EPOST	B B B B B B	0.0 b	0.0 b	0.0 b	11.3 a	99.0 a
8	Halex GT Atrazine NIS N-Pak AMS Liquid	4.39 4 100 100	CS F SL L	1.98 lb ai/a 0.5 lb ai/a 0.25 % v/v 2.5 % v/v	EPOST EPOST EPOST EPOST	B B B B	0.0 b	0.0 b	0.0 b	1.3 a	99.0 a
9	ROUNDUP POWERMAX Atrazine PROWL H20 NIS	5.5 4 3.8 100	SL F SC L	1.375 lb ai/a 2.0 lb ai/a 0.95 lb ai/a 0.25 % v/v	EPOST EPOST EPOST EPOST	B B B B	0.0 b	0.0 b	0.0 b	3.8 a	99.0 a

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Could not calculate Tukey's HSD (% mean diff) for columns 1,2,5 because error mean square = 0.

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Part Rated Rating Date Rating Type Rating Unit Sample Size, Unit Collection Basis, Unit Number of Subsamples SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals						W Weed AMAPA Amaranthus pal> Palmer amaranth ZEAMX BCOR Zea mays Corn STUNTING PLANT C Apr-11-18 % 2 ROW 1 PLOT 1 7 14 14 7 DA-C 15 DP-1 s10	W Weed AGRASS CONTROL PLANT C Apr-11-18 % 2 ROW 1 PLOT 1 7 14 14 14 DA-C 15 DP-1 s10	W Weed AGRASS CONTROL PLANT P Apr-11-18 % 2 ROW 1 PLOT 1 9 14 14 0 DA-B 15 DP-1 S05	W Weed AMAPA Amaranthus pal> Palmer amaranth ZEAMX BCOR Zea mays Corn STUNTING PLANT C Apr-26-18 % 2 ROW 1 PLOT 1 9 29 9 14 DA-B 30 DP-1 S05	W Weed AMAPA Amaranthus pal> Palmer amaranth CONTROL PLANT C Apr-26-18 % 2 ROW 1 PLOT 1 9 29 9 28 DA-B 30 DP-1 S05	
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Growth Stage	Appl Code	1	2	3	4	5
10 REVULIN Q Atrazine COC	51.2 4	DG F	0.109 2.0	lb ai/a lb ai/a	EPOST EPOST	B B	0.0 b	0.0 b	0.0 b	2.5 a	99.0 a
Tukey's HSD P=.10							.	.	2.01	14.77	.
Standard Deviation							0.00	0.00	0.91	6.70	0.00
CV							0.0	0.0	2.31	105.09	0.0
Grand Mean							4.00	39.60	39.40	6.38	89.10
Levene's F							0.00	0.00	0.00	0.482	0.00
Levene's Prob(F)							0.00*	0.00*	0.00*	0.875	0.00*
Replicate F							0.000	0.000	0.643	0.051	0.000
Replicate Prob(F)							1.0000	1.0000	0.5941	0.9844	1.0000
Treatment F							0.000	0.000	12474.858	1.561	0.000
Treatment Prob(F)							1.0000	1.0000	0.0001	0.1775	1.0000

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Could not calculate Tukey's HSD (% mean diff) for columns 1,2,5 because error mean square = 0.

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Part Rated Rating Date Rating Type Rating Unit Sample Size, Unit Collection Basis, Unit Number of Subsamples SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals						W Weed AGRASS		W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed AGRASS	W Weed AMAPA Amaranthus pal> Palmer amaranth
						CONTROL PLANT P Apr-26-18	ZEAMX BCOR Zea mays Corn STUNTING PLANT C May-14-18	CONTROL PLANT C May-14-18	CONTROL PLANT P May-14-18	CONTROL PLANT C Jun-12-18
						% 2 ROW 1 PLOT	% 2 ROW 1 PLOT			
						1 9 29 9 42 DA-B 30 DP-1 S05	1 9 47 17 56 DA-B 48 DP-1 S05	1 14 47 17 48 DP-1	1 14 47 17 48 DP-1	1 15 76 46 77 DP-1
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Growth Stage	Appl Code	6	7	8	9	10
1 Untreated Check						0.0 b	0.0 a	0.0 b	0.0 d	0.0 c
2 Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	PRE	A	96.0 a	1.3 a	94.5 a	62.5 c	94.5 b
3 Harness Xtra 5.6 ImpactZ MSO N-Pak AMS Liquid	5.6 4.26 100 100	SC SC SL L	2.52 lb ai/a 0.356 lb ai/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A C C C	80.8 a	6.3 a	99.0 a	82.5 b	99.0 a
4 Harness Xtra 5.6 ImpactZ Roundup PowerMax MSO N-Pak AMS Liquid	5.6 4.26 4.5 100 100	SC SC SL SL L	2.52 lb ai/a 0.266 lb ai/a 1.13 lb ae/a 0.5 % v/v 2.5 % v/v	PRE POST POST POST POST	A C C C C	83.3 a	2.5 a	99.0 a	91.0 ab	99.0 a
5 Harness Xtra 5.6 ImpactZ Liberty 280 SL N-Pak AMS Liquid	5.6 4.26 2.34 100	SC SC SL L	2.52 lb ai/a 0.266 lb ai/a 0.53 lb ai/a 2.5 % v/v	PRE POST POST POST	A C C C	91.0 a	3.8 a	99.0 a	94.5 ab	99.0 a
6 Harness IMPACT Atrazine MSO N-Pak AMS Liquid	7 2.8 4 100 100	EC SC F SL L	1.60 lb ai/a 0.0219 lb ai/a 0.5 lb ai/a 0.25 % v/v 2.5 % v/v	EPOST EPOST EPOST EPOST EPOST	B B B B B	95.8 a	3.8 a	99.0 a	87.5 ab	99.0 a
7 Harness IMPACT Atrazine Roundup PowerMax MSO N-Pak AMS Liquid	7 2.8 4 4.5 100 100	EC SC F SL SL L	1.60 lb ai/a 0.0164 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 0.25 % v/v 2.5 % v/v	EPOST EPOST EPOST EPOST EPOST EPOST	B B B B B B	99.0 a	5.0 a	99.0 a	88.5 ab	99.0 a
8 Halex GT Atrazine NIS N-Pak AMS Liquid	4.39 4 100 100	CS F SL L	1.98 lb ai/a 0.5 lb ai/a 0.25 % v/v 2.5 % v/v	EPOST EPOST EPOST EPOST	B B B B	99.0 a	0.0 a	99.0 a	92.0 ab	99.0 a
9 ROUNDUP POWERMAX Atrazine PROWL H20 NIS	5.5 4 3.8 100	SL F SC L	1.375 lb ai/a 2.0 lb ai/a 0.95 lb ai/a 0.25 % v/v	EPOST EPOST EPOST EPOST	B B B B	98.0 a	0.0 a	99.0 a	99.0 a	99.0 a

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Could not calculate Tukey's HSD (% mean diff) for columns 1,2,5 because error mean square = 0.

University of Georgia

Pest Type	W Weed		W Weed		W Weed		W Weed			
Pest Code	AGRASS		AMAPA		AGRASS		AMAPA			
Pest Scientific Name			Amaranthus pal>				Amaranthus pal>			
Pest Name			Palmer amaranth				Palmer amaranth			
Crop Code			ZEAMX							
BBCH Scale			BCOR							
Crop Scientific Name			Zea mays							
Crop Name			Corn							
Description	CONTROL		STUNTING		CONTROL		CONTROL			
Part Rated	PLANT P		PLANT C		PLANT C		PLANT P			
Rating Date	Apr-26-18		May-14-18		May-14-18		May-14-18			
Rating Type										
Rating Unit	%		%							
Sample Size, Unit	2	ROW	2	ROW						
Collection Basis, Unit	1	PLOT	1	PLOT						
Number of Subsamples	1		1		1		1			
SE Group No.	9		9		14		14			
Days After First/Last Applic.	29	9	47	17	47	17	47	17		
Trt-Eval Interval	42 DA-B		56 DA-B							
Plant-Eval Interval	30 DP-1		48 DP-1		48 DP-1		48 DP-1			
ARM Action Codes	S05		S05							
Number of Decimals										
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Growth Stage	Appl Code				
6							8	9		
7								10		
8										
9										
10										
10 REVULIN Q	51.2	DG	0.109	lb ai/a	EPOST B		99.0 a	93.5 ab	99.0 a	
Atrazine	4	F	2.0	lb ai/a	EPOST B					
COC			1.0	% v/v	EPOST B					
Tukey's HSD P=.10			22.28		7.61		4.61		15.81	
Standard Deviation			10.11		3.45		2.09		7.17	
CV			12.07		145.38		2.36		9.07	
Grand Mean			83.73		2.38		88.65		79.10	
Levene's F			4.285		2.481				2.885	
Levene's Prob(F)			0.001*		0.03*				0.014*	
Replicate F			2.297		2.709		1.000		3.042	
Replicate Prob(F)			0.1002		0.0649		0.4079		0.0460	
Treatment F			35.482		1.683		890.588		67.850	
Treatment Prob(F)			0.0001		0.1420		0.0001		0.0001	

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Could not calculate Tukey's HSD (% mean diff) for columns 1,2,5 because error mean square = 0.

University of Georgia

						W Weed			
						AGRASS			
Pest Type									
Pest Code									
Pest Scientific Name									
Pest Name									
Crop Code							ZEAMA	ZEAMA	
BBCH Scale							BCOR	BCOR	
Crop Scientific Name							Zea mays amyla>	Zea mays amyla>	
Crop Name							Flour corn	Flour corn	
Description						CONTROL	YIELD	YIELD	
Part Rated						PLANT P	PLOT -	PLOT -	
Rating Date						Jun-12-18	Sep-5-18	Sep-5-18	
Rating Type							LBS/PLOT	BU/A	
Rating Unit								BU	
Sample Size, Unit							1 PLOT	1 A	
Collection Basis, Unit									
Number of Subsamples						1	1	1	
SE Group No.						15	12	13	
Days After First/Last Applic.						76 46	161 131	161 131	
Trt-Eval Interval									
Plant-Eval Interval						77 DP-1	162 DP-1	162 DP-1	
ARM Action Codes								TY1	
Number of Decimals								0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	11	12	13
1	Untreated Check						0.0 d	41.0 a	209 a
2	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	PRE	A	53.8 c	47.0 a	239 a
3	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	PRE	A	81.3 ab	44.5 a	227 a
	ImpactZ	4.26	SC	0.356 lb ai/a	POST	C			
	MSO	100	SL	1.0 % v/v	POST	C			
4	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	PRE	A	83.8 ab	43.8 a	223 a
	ImpactZ	4.26	SC	0.266 lb ai/a	POST	C			
	Roundup PowerMax	4.5	SL	1.13 lb ae/a	POST	C			
	MSO	100	SL	0.5 % v/v	POST	C			
5	Harness Xtra 5.6	5.6	SC	2.52 lb ai/a	PRE	A	90.0 ab	42.0 a	214 a
	ImpactZ	4.26	SC	0.266 lb ai/a	POST	C			
	Liberty 280 SL	2.34	SL	0.53 lb ai/a	POST	C			
	N-Pak AMS Liquid	100	L	2.5 % v/v	POST	C			
6	Harness	7	EC	1.60 lb ai/a	EPOST	B	73.8 b	41.5 a	211 a
	IMPACT	2.8	SC	0.0219 lb ai/a	EPOST	B			
	Atrazine	4	F	0.5 lb ai/a	EPOST	B			
	MSO	100	SL	0.25 % v/v	EPOST	B			
	N-Pak AMS Liquid	100	L	2.5 % v/v	EPOST	B			
7	Harness	7	EC	1.60 lb ai/a	EPOST	B	90.0 ab	45.3 a	230 a
	IMPACT	2.8	SC	0.0164 lb ai/a	EPOST	B			
	Atrazine	4	F	0.5 lb ai/a	EPOST	B			
	Roundup PowerMax	4.5	SL	1.13 lb ae/a	EPOST	B			
	MSO	100	SL	0.25 % v/v	EPOST	B			
	N-Pak AMS Liquid	100	L	2.5 % v/v	EPOST	B			
8	Halex GT	4.39	CS	1.98 lb ai/a	EPOST	B	88.8 ab	46.5 a	237 a
	Atrazine	4	F	0.5 lb ai/a	EPOST	B			
	NIS	100	SL	0.25 % v/v	EPOST	B			
	N-Pak AMS Liquid	100	L	2.5 % v/v	EPOST	B			
9	ROUNDUP POWERMAX	5.5	SL	1.375 lb ai/a	EPOST	B	92.5 a	44.8 a	228 a
	Atrazine	4	F	2.0 lb ai/a	EPOST	B			
	PROWL H20	3.8	SC	0.95 lb ai/a	EPOST	B			
	NIS			0.25 % v/v	EPOST	B			

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Could not calculate Tukey's HSD (% mean diff) for columns 1,2,5 because error mean square = 0.

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Pest Type	W Weed		
Pest Code	AGRASS		
Pest Scientific Name			
Pest Name			
Crop Code	ZEAMA		
BBCH Scale	BCOR		
Crop Scientific Name	Zea mays amyla>		
Crop Name	Flour corn		
Description	YIELD		
Part Rated	CONTROL		
Rating Date	PLANT P		
Rating Type	Jun-12-18		
Rating Unit	PLOT -		
Sample Size, Unit	Sep-5-18		
Collection Basis, Unit	LBS/PLOT		
Number of Subsamples	BU/A		
SE Group No.	BU		
Days After First/Last Applic.	1 PLOT		
Trt-Eval Interval	1 A		
Plant-Eval Interval	1		
ARM Action Codes	15		
Number of Decimals	76 46		
	161 131		
	161 131		
	77 DP-1		
	162 DP-1		
	162 DP-1		
	TY1		
	0		
Trt Treatment	Form Form	Rate	Growth Appl
No. Name	Conc Type	Rate Unit	Stage Code
10 REVULIN Q	51.2 DG	0.109 lb ai/a	EPOST B
Atrazine	4 F	2.0 lb ai/a	EPOST B
COC		1.0 % v/v	EPOST B
Tukey's HSD P=.10	17.78	8.20	41.8
Standard Deviation	8.07	3.72	19.0
CV	10.85	8.42	8.42
Grand Mean	74.38	44.23	225.3
Levene's F	1.787	0.396	0.396
Levene's Prob(F)	0.112	0.927	0.927
Replicate F	0.573	1.667	1.667
Replicate Prob(F)	0.6376	0.1975	0.1975
Treatment F	50.272	1.297	1.297
Treatment Prob(F)	0.0001	0.2836	0.2836

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Could not calculate Tukey's HSD (% mean diff) for columns 1,2,5 because error mean square = 0.

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Impact and Impact Z Weed Control Programs in Field Corn

Trial ID: CN-11-18 Trial Year: 2018
 Protocol ID: 18C04H096 Investigator: Eric P. Prostko
 Project ID: IMPACTZ Study Director: Richard Porter

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, Palmer amaranth = US

AGRASS, , = AGRASS, ,

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

ZEAMA, BCOR, Zea mays amylacea, Flour corn = US

Part Rated

PLANT = plant

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

Rating Unit

% = percent

BU = bushel

ROW = row

PLOT = total plot

A = acre

PLOT = total plot

Plant-Eval Interval

15 DP-1 = 1 ZEAMX Mar-27-18

30 DP-1 = 1 ZEAMX Mar-27-18

48 DP-1 = 1 ZEAMX Mar-27-18

77 DP-1 = 1 ZEAMX Mar-27-18

162 DP-1 = 1 ZEAMX Mar-27-18

ARM Action Codes

s10 = Perform 10% Student-Newman-Keuls mean separation on Standardized Summary

S05 = Perform 5% Student-Newman-Keuls mean separation on Standardized Summary

TY1 = 5.09366*[C12]

University of Georgia

Impact and Impact Z Weed Control Programs in Field Corn

Trial ID: CN-11-18
 Protocol ID: 18C04H096
 Project ID: IMPACTZ
 Trial Year: 2018
 Investigator: Eric P. Probstko
 Study Director: Richard Porter

						W Weed AMAPA Amaranthus pal Palmer amaranth	W Weed AGRASS			
Pest Type						ZEAMX BCOR Zea mays Corn		ZEAMX BCOR Zea mays Corn		
Pest Code						STUNTING PLANT C Apr-11-18	CONTROL PLANT P Apr-11-18	CONTROL PLANT P Apr-11-18	STUNTING PLANT C Apr-26-18	
Pest Scientific Name						%	%	%	%	
Pest Name						2 ROW	2 ROW	2 ROW	2 ROW	
Crop Code						1 PLOT	1 PLOT	1 PLOT	1 PLOT	
BBCH Scale						1	1	1	1	
Crop Scientific Name						7	7	9	9	
Crop Name						14 14	14 14	14 14	29 9	
Description						7 DA-C	14 DA-C	0 DA-B	14 DA-B	
Part Rated						15 DP-1	15 DP-1	15 DP-1	30 DP-1	
Rating Date						s10	s10	S05	S05	
Rating Type										
Rating Unit										
Sample Size, Unit										
Collection Basis, Unit										
Number of Subsamples										
SE Group No.										
Days After First/Last Applic.										
Trt-Eval Interval										
Plant-Eval Interval										
ARM Action Codes										
Number of Decimals										
Trt Treatment	Form Form	Rate	Growth	Appl						
No. Name	Conc Type	Rate Unit	Stage	Code Plot	1	2	3	4		
1 Untreated Check					101	0.0	0.0	0.0	0.0	
					203	0.0	0.0	0.0	0.0	
					307	0.0	0.0	0.0	0.0	
					409	0.0	0.0	0.0	0.0	
				Mean =		0.0	0.0	0.0	0.0	
2 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	102	10.0	99.0	99.0	10.0	
					205	10.0	99.0	99.0	15.0	
					303	10.0	99.0	99.0	10.0	
					410	10.0	99.0	99.0	5.0	
				Mean =		10.0	99.0	99.0	10.0	
3 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	103	10.0	99.0	99.0	15.0	
ImpactZ	4.26 SC	0.356 lb ai/a	POST	C	202	10.0	99.0	99.0	0.0	
MSO	100 SL	1.0 % v/v	POST	C	309	10.0	99.0	99.0	10.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	POST	C	401	10.0	99.0	99.0	15.0	
				Mean =		10.0	99.0	99.0	10.0	
4 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	104	10.0	99.0	99.0	20.0	
ImpactZ	4.26 SC	0.266 lb ai/a	POST	C	206	10.0	99.0	99.0	0.0	
Roundup PowerMax	4.5 SL	1.13 lb ae/a	POST	C	301	10.0	99.0	99.0	0.0	
MSO	100 SL	0.5 % v/v	POST	C	408	10.0	99.0	95.0	5.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	POST	C						
				Mean =		10.0	99.0	98.0	6.3	
5 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	105	10.0	99.0	99.0	10.0	
ImpactZ	4.26 SC	0.266 lb ai/a	POST	C	204	10.0	99.0	99.0	20.0	
Liberty 280 SL	2.34 SL	0.53 lb ai/a	POST	C	306	10.0	99.0	95.0	0.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	POST	C	405	10.0	99.0	99.0	10.0	
				Mean =		10.0	99.0	98.0	10.0	
6 Harness	7 EC	1.60 lb ai/a	EPOST	B	106	0.0	0.0	0.0	0.0	
IMPACT	2.8 SC	0.0219 lb ai/a	EPOST	B	201	0.0	0.0	0.0	10.0	
Atrazine	4 F	0.5 lb ai/a	EPOST	B	310	0.0	0.0	0.0	10.0	
MSO	100 SL	0.25 % v/v	EPOST	B	402	0.0	0.0	0.0	15.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	EPOST	B						
				Mean =		0.0	0.0	0.0	8.8	
7 Harness	7 EC	1.60 lb ai/a	EPOST	B	107	0.0	0.0	0.0	0.0	
IMPACT	2.8 SC	0.0164 lb ai/a	EPOST	B	208	0.0	0.0	0.0	15.0	
Atrazine	4 F	0.5 lb ai/a	EPOST	B	305	0.0	0.0	0.0	15.0	
Roundup PowerMax	4.5 SL	1.13 lb ae/a	EPOST	B	403	0.0	0.0	0.0	15.0	
MSO	100 SL	0.25 % v/v	EPOST	B						
N-Pak AMS Liquid	100 L	2.5 % v/v	EPOST	B						
				Mean =		0.0	0.0	0.0	11.3	
8 Halex GT	4.39 CS	1.98 lb ai/a	EPOST	B	108	0.0	0.0	0.0	5.0	
Atrazine	4 F	0.5 lb ai/a	EPOST	B	210	0.0	0.0	0.0	0.0	
NIS	100 SL	0.25 % v/v	EPOST	B	304	0.0	0.0	0.0	0.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	EPOST	B	407	0.0	0.0	0.0	0.0	
				Mean =		0.0	0.0	0.0	1.3	

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Part Rated Rating Date Rating Type Rating Unit Sample Size, Unit Collection Basis, Unit Number of Subsamples SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals	ZEAMX BCOR Zea mays Corn STUNTING PLANT C Apr-11-18 % 2 ROW 1 PLOT 1 7 14 14 7 DA-C 15 DP-1 s10	W Weed AMAPA Amaranthus pal Palmer amaranth CONTROL PLANT C Apr-11-18 % 2 ROW 1 PLOT 1 7 14 14 14 DA-C 15 DP-1 s10	W Weed AGRASS CONTROL PLANT P Apr-11-18 % 2 ROW 1 PLOT 1 9 14 14 0 DA-B 15 DP-1 S05	ZEAMX BCOR Zea mays Corn STUNTING PLANT C Apr-26-18 % 2 ROW 1 PLOT 1 9 29 9 14 DA-B 30 DP-1 S05
Trt Treatment No. Name	Form Form Conc Type Rate	Rate Unit	Growth Appl Stage Code Plot	1 2 3 4
9 ROUNDUP POWERMAX Atrazine PROWL H20 NIS Mean =	5.5 SL 4 F 3.8 SC	1.375 lb ai/a 2.0 lb ai/a 0.95 lb ai/a 0.25 % v/v	EPOST B 109 EPOST B 207 EPOST B 302 EPOST B 404 Mean =	0.0 0.0 0.0 0.0 0.0
10 REVULIN Q Atrazine COC Mean =	51.2 DG 4 F	0.109 lb ai/a 2.0 lb ai/a 1.0 % v/v	EPOST B 110 EPOST B 209 EPOST B 308 EPOST B 406 Mean =	0.0 0.0 0.0 0.0 0.0

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Part Rated Rating Date Rating Type Rating Unit Sample Size, Unit Collection Basis, Unit Number of Subsamples SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals							W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed AGRASS	ZEAMX BCOR Zea mays Corn	W Weed AMAPA Amaranthus pal> Palmer amaranth
							CONTROL PLANT C Apr-26-18	CONTROL PLANT P Apr-26-18	STUNTING PLANT C May-14-18	CONTROL PLANT C May-14-18
							%	%	%	
							2 ROW 1 PLOT	2 ROW 1 PLOT	2 ROW 1 PLOT	
							1	1	1	1
							9	9	9	14
							29 9	29 9	47 17	47 17
							28 DA-B	42 DA-B	56 DA-B	
							30 DP-1	30 DP-1	48 DP-1	48 DP-1
							S05	S05	S05	
Trt Treatment No. Name	Form Form Conc Type	Rate Rate	Growth Stage	Appl Code	Appl Plot	5	6	7	8	
1 Untreated Check					101	0.0	0.0	0.0	0.0	
					203	0.0	0.0	0.0	0.0	
					307	0.0	0.0	0.0	0.0	
					409	0.0	0.0	0.0	0.0	
					Mean =	0.0	0.0	0.0	0.0	
2 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	102	99.0	95.0	0.0	99.0	
					205	99.0	99.0	5.0	95.0	
					303	99.0	95.0	0.0	99.0	
					410	99.0	95.0	0.0	85.0	
					Mean =	99.0	96.0	1.3	94.5	
3 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	103	99.0	99.0	10.0	99.0	
ImpactZ	4.26 SC	0.356 lb ai/a	POST	C	202	99.0	99.0	10.0	99.0	
MSO	100 SL	1.0 % v/v	POST	C	309	99.0	65.0	0.0	99.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	POST	C	401	99.0	60.0	5.0	99.0	
					Mean =	99.0	80.8	6.3	99.0	
4 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	104	99.0	99.0	10.0	99.0	
ImpactZ	4.26 SC	0.266 lb ai/a	POST	C	206	99.0	99.0	0.0	99.0	
Roundup PowerMax	4.5 SL	1.13 lb ae/a	POST	C	301	99.0	50.0	0.0	99.0	
MSO	100 SL	0.5 % v/v	POST	C	408	99.0	85.0	0.0	99.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	POST	C						
					Mean =	99.0	83.3	2.5	99.0	
5 Harness Xtra 5.6	5.6 SC	2.52 lb ai/a	PRE	A	105	99.0	95.0	0.0	99.0	
ImpactZ	4.26 SC	0.266 lb ai/a	POST	C	204	99.0	99.0	10.0	99.0	
Liberty 280 SL	2.34 SL	0.53 lb ai/a	POST	C	306	99.0	75.0	0.0	99.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	POST	C	405	99.0	95.0	5.0	99.0	
					Mean =	99.0	91.0	3.8	99.0	
6 Harness	7 EC	1.60 lb ai/a	EPOST	B	106	99.0	99.0	0.0	99.0	
IMPACT	2.8 SC	0.0219 lb ai/a	EPOST	B	201	99.0	90.0	10.0	99.0	
Atrazine	4 F	0.5 lb ai/a	EPOST	B	310	99.0	95.0	0.0	99.0	
MSO	100 SL	0.25 % v/v	EPOST	B	402	99.0	99.0	5.0	99.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	EPOST	B						
					Mean =	99.0	95.8	3.8	99.0	
7 Harness	7 EC	1.60 lb ai/a	EPOST	B	107	99.0	99.0	0.0	99.0	
IMPACT	2.8 SC	0.0164 lb ai/a	EPOST	B	208	99.0	99.0	10.0	99.0	
Atrazine	4 F	0.5 lb ai/a	EPOST	B	305	99.0	99.0	10.0	99.0	
Roundup PowerMax	4.5 SL	1.13 lb ae/a	EPOST	B	403	99.0	99.0	0.0	99.0	
MSO	100 SL	0.25 % v/v	EPOST	B						
N-Pak AMS Liquid	100 L	2.5 % v/v	EPOST	B						
					Mean =	99.0	99.0	5.0	99.0	
8 Halex GT	4.39 CS	1.98 lb ai/a	EPOST	B	108	99.0	99.0	0.0	99.0	
Atrazine	4 F	0.5 lb ai/a	EPOST	B	210	99.0	99.0	0.0	99.0	
NIS	100 SL	0.25 % v/v	EPOST	B	304	99.0	99.0	0.0	99.0	
N-Pak AMS Liquid	100 L	2.5 % v/v	EPOST	B	407	99.0	99.0	0.0	99.0	
					Mean =	99.0	99.0	0.0	99.0	

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Part Rated Rating Date Rating Type Rating Unit Sample Size, Unit Collection Basis, Unit Number of Subsamples SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals							W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed AGRASS		W Weed AMAPA Amaranthus pal> Palmer amaranth
	CONTROL PLANT C Apr-26-18	CONTROL PLANT P Apr-26-18	ZEAMX BCOR Zea mays Corn STUNTING PLANT C May-14-18	CONTROL PLANT C May-14-18						
	% 2 ROW 1 PLOT	% 2 ROW 1 PLOT	% 2 ROW 1 PLOT							
	1 1 9 9	1 1 9 9	1 1 9 9	1 1 14 17						
	29 9 28 DA-B 30 DP-1 S05	29 9 42 DA-B 30 DP-1 S05	47 17 56 DA-B 48 DP-1 S05	47 17						
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit	Growth Stage	Appl Code Plot	5	6	7	8
9 ROUNDUP POWERMAX	5.5 SL		1.375 lb ai/a	ai/a	EPOST B	109	99.0	95.0	0.0	99.0
Atrazine	4 F		2.0 lb ai/a	ai/a	EPOST B	207	99.0	99.0	0.0	99.0
PROWL H20	3.8 SC		0.95 lb ai/a	ai/a	EPOST B	302	99.0	99.0	0.0	99.0
NIS			0.25 % v/v	v/v	EPOST B	404	99.0	99.0	0.0	99.0
					Mean =		99.0	98.0	0.0	99.0
10 REVULIN Q	51.2 DG		0.109 lb ai/a	ai/a	EPOST B	110	99.0	99.0	0.0	99.0
Atrazine	4 F		2.0 lb ai/a	ai/a	EPOST B	209	99.0	90.0	5.0	99.0
COC			1.0 % v/v	v/v	EPOST B	308	99.0	99.0	0.0	99.0
						406	99.0	90.0	0.0	99.0
					Mean =		99.0	94.5	1.3	99.0

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Pest Type							W Weed	W Weed	W Weed	
Pest Code							AGRASS	AMAPA	AGRASS	
Pest Scientific Name								Amaranthus pal		
Pest Name								Palmer amaranth		
Crop Code										ZEAMA
BBCH Scale										BCOR
Crop Scientific Name										Zea mays amyla>
Crop Name										Flour corn
Description							CONTROL	CONTROL	CONTROL	YIELD
Part Rated							PLANT P	PLANT C	PLANT P	PLOT -
Rating Date							May-14-18	Jun-12-18	Jun-12-18	Sep-5-18
Rating Type										LBS/PLOT
Rating Unit										1 PLOT
Sample Size, Unit										
Collection Basis, Unit										
Number of Subsamples							1	1	1	1
SE Group No.							14	15	15	12
Days After First/Last Applic.							47 17	76 46	76 46	161 131
Trt-Eval Interval										
Plant-Eval Interval							48 DP-1	77 DP-1	77 DP-1	162 DP-1
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code Plot	9	10	11	12
1	Untreated Check					101	0.0	0.0	0.0	31.0
						203	0.0	0.0	0.0	44.0
						307	0.0	0.0	0.0	44.0
						409	0.0	0.0	0.0	45.0
						Mean =	0.0	0.0	0.0	41.0
2	Harness Xtra 5.6	5.6 SC		2.52 lb ai/a	PRE A	102	65.0	99.0	50.0	45.0
						205	65.0	99.0	50.0	45.0
						303	55.0	90.0	50.0	49.0
						410	65.0	90.0	65.0	49.0
						Mean =	62.5	94.5	53.8	47.0
3	Harness Xtra 5.6	5.6 SC		2.52 lb ai/a	PRE A	103	95.0	99.0	90.0	48.0
	ImpactZ	4.26 SC		0.356 lb ai/a	POST C	202	95.0	99.0	95.0	44.0
	MSO	100 SL		1.0 % v/v	POST C	309	75.0	99.0	75.0	45.0
	N-Pak AMS Liquid	100 L		2.5 % v/v	POST C	401	65.0	99.0	65.0	41.0
						Mean =	82.5	99.0	81.3	44.5
4	Harness Xtra 5.6	5.6 SC		2.52 lb ai/a	PRE A	104	95.0	99.0	95.0	41.0
	ImpactZ	4.26 SC		0.266 lb ai/a	POST C	206	99.0	99.0	90.0	44.0
	Roundup PowerMax	4.5 SL		1.13 lb ae/a	POST C	301	85.0	99.0	65.0	40.0
	MSO	100 SL		0.5 % v/v	POST C	408	85.0	99.0	85.0	50.0
	N-Pak AMS Liquid	100 L		2.5 % v/v	POST C					
						Mean =	91.0	99.0	83.8	43.8
5	Harness Xtra 5.6	5.6 SC		2.52 lb ai/a	PRE A	105	99.0	99.0	85.0	43.0
	ImpactZ	4.26 SC		0.266 lb ai/a	POST C	204	99.0	99.0	85.0	41.0
	Liberty 280 SL	2.34 SL		0.53 lb ai/a	POST C	306	85.0	99.0	95.0	40.0
	N-Pak AMS Liquid	100 L		2.5 % v/v	POST C	405	95.0	99.0	95.0	44.0
						Mean =	94.5	99.0	90.0	42.0
6	Harness	7 EC		1.60 lb ai/a	EPOST B	106	95.0	99.0	75.0	39.0
	IMPACT	2.8 SC		0.0219 lb ai/a	EPOST B	201	85.0	99.0	75.0	44.0
	Atrazine	4 F		0.5 lb ai/a	EPOST B	310	85.0	99.0	75.0	41.0
	MSO	100 SL		0.25 % v/v	EPOST B	402	85.0	99.0	70.0	42.0
	N-Pak AMS Liquid	100 L		2.5 % v/v	EPOST B					
						Mean =	87.5	99.0	73.8	41.5
7	Harness	7 EC		1.60 lb ai/a	EPOST B	107	95.0	99.0	85.0	47.0
	IMPACT	2.8 SC		0.0164 lb ai/a	EPOST B	208	80.0	99.0	90.0	47.0
	Atrazine	4 F		0.5 lb ai/a	EPOST B	305	80.0	99.0	90.0	41.0
	Roundup PowerMax	4.5 SL		1.13 lb ae/a	EPOST B	403	99.0	99.0	95.0	46.0
	MSO	100 SL		0.25 % v/v	EPOST B					
	N-Pak AMS Liquid	100 L		2.5 % v/v	EPOST B					
						Mean =	88.5	99.0	90.0	45.3
8	Halex GT	4.39 CS		1.98 lb ai/a	EPOST B	108	95.0	99.0	90.0	50.0
	Atrazine	4 F		0.5 lb ai/a	EPOST B	210	99.0	99.0	95.0	51.0
	NIS	100 SL		0.25 % v/v	EPOST B	304	99.0	99.0	95.0	39.0
	N-Pak AMS Liquid	100 L		2.5 % v/v	EPOST B	407	75.0	99.0	75.0	46.0
						Mean =	92.0	99.0	88.8	46.5

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Part Rated Rating Date Rating Type Rating Unit Sample Size, Unit Collection Basis, Unit Number of Subsamples SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals	W Weed AGRASS	W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed AGRASS	ZEAMA BCOR Zea mays amyla> Flour corn YIELD PLOT - Sep-5-18 LBS/PLOT 1 PLOT 1 12 161 131 162 DP-1
	CONTROL PLANT P May-14-18	CONTROL PLANT C Jun-12-18	CONTROL PLANT P Jun-12-18	
Trt Treatment	Form Form	Rate	Growth Appl	
No. Name	Conc Type Rate Unit	Stage Code Plot		
9 ROUNDUP POWERMAX	5.5 SL	1.375 lb ai/a	EPOST B 109	99.0
Atrazine	4 F	2.0 lb ai/a	EPOST B 207	99.0
PROWL H20	3.8 SC	0.95 lb ai/a	EPOST B 302	99.0
NIS		0.25 % v/v	EPOST B 404	99.0
			Mean =	99.0
10 REVULIN Q	51.2 DG	0.109 lb ai/a	EPOST B 110	99.0
Atrazine	4 F	2.0 lb ai/a	EPOST B 209	90.0
COC		1.0 % v/v	EPOST B 308	95.0
			406	90.0
			Mean =	93.5
				99.0
				95.0
				90.0
				45.0
				50.0
				41.0
				43.0
				44.8
				45.0
				50.0
				46.0
				43.0
				46.0

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Impact and Impact Z Weed Control Programs in Field Corn

Trial ID: CN-11-18 Trial Year: 2018
 Protocol ID: 18C04H096 Investigator: Eric P. Prostko
 Project ID: IMPACTZ Study Director: Richard Porter

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, Palmer amaranth = US

AGRASS, , = AGRASS, ,

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

ZEAMA, BCOR, Zea mays amylacea, Flour corn = US

Part Rated

PLANT = plant

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

Rating Unit

% = percent

BU = bushel

ROW = row

PLOT = total plot

A = acre

PLOT = total plot

Plant-Eval Interval

15 DP-1 = 1 ZEAMX Mar-27-18

30 DP-1 = 1 ZEAMX Mar-27-18

48 DP-1 = 1 ZEAMX Mar-27-18

77 DP-1 = 1 ZEAMX Mar-27-18

162 DP-1 = 1 ZEAMX Mar-27-18

ARM Action Codes

s10 = Perform 10% Student-Newman-Keuls mean separation on Standardized Summary

S05 = Perform 5% Student-Newman-Keuls mean separation on Standardized Summary

TY1 = 5.09366*[C12]